

SEIZURE SENSING AND DETECTION USING AN IMPLANTABLE DEVICE

Patent number: CA2456443
Publication date: 2003-01-09
Inventor: ARCHER STEPHEN T (US); PLESS BENJAMIN D (US);
BAYSINGER CRAIG M (US); GIBB BARBARA (US);
TCHENG THOMAS K (US); KIRKPATRICK BRUCE
(US); GURUNATHAN SURESH K (US)
Applicant: NEUROPACE INC (US)
Classification:
- international: **A61B5/0476; A61B5/0476; (IPC1-7): A61B5/00;**
A61B5/0476; A61N1/36; G06F17/00
- european: **A61B5/0476**
Application number: CA20022456443 20020628
Priority number(s): US20010896092 20010628; WO2002US20630
20020628

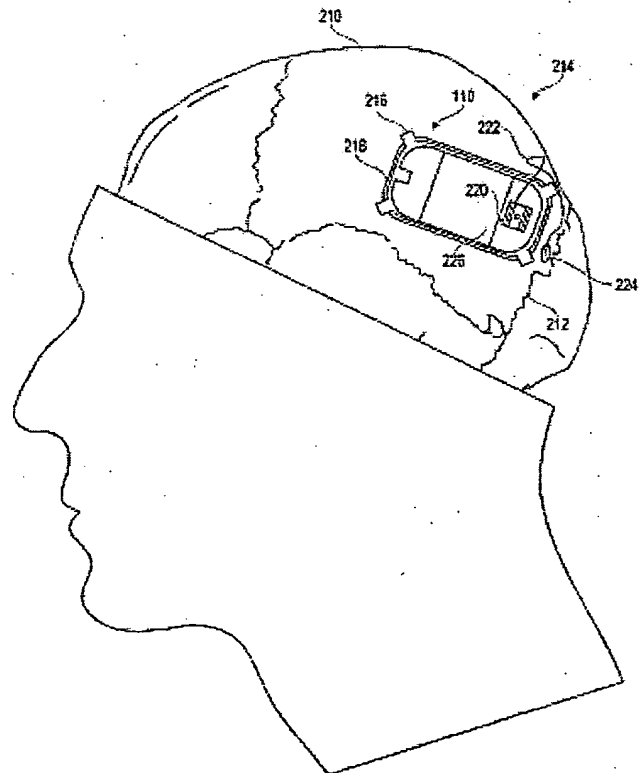
Also published as:

WO03001996 (A3)
WO03001996 (A2)
EP1404216 (A3)
EP1404216 (A2)
US6810285 (B2)

more >>

[Report a data error here](#)**Abstract of CA2456443**

A system and method for detecting and predicting neurological events with an implantable device (110) uses a relatively low-power central processing unit (428) in connection with signal processing circuitry (422) to identify features (including half waves) and calculate window-based characteristics (including line lengths and areas under the curve of the waveform) in an electrographic signal received from a patient's brain. The features and window-based characteristics are combinable in various ways according to the invention to detect and predict neurological events in real time, enabling responsive action by the implantable device.



Data supplied from the esp@cenet database - Worldwide

